

LE VAN BAO

AI Intern

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📍 Hanoi, Vietnam

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SUMMARY

I am a passionate and forward-thinking AI Intern with a solid academic foundation in artificial intelligence and machine learning. I am eager to bridge theoretical knowledge with practical applications and contribute to cutting-edge projects in the field. Proficient in key AI technologies, notably PyTorch, I am dedicated to developing innovative solutions that address complex challenges. With a strong aptitude for problem-solving and analytical thinking, I remain committed to staying updated with the latest advancements in AI and continually expanding my skill set. My effective communication skills and collaborative mindset make me well-equipped for teamwork in dynamic AI environments. Currently seeking an internship opportunity to refine my skills, gain hands-on experience, and make meaningful contributions to the advancement of artificial intelligence.

SKILLS

Languages: Python, C++

Technologies: PyTorch, PyTorch Lightning, Git, Docker, Hydra, Pandas, Tensorflow, Streamlit, FastAPI.

PROJECTS

PyTorch Lightning Hydra Docker Triton CVAT	Ship Segmentation ship-segmentation (github.com) <ul style="list-style-type: none">- A semantic segmentation system trained on satellite imagery dataset to detect ships on the ocean.- Utilizing different U-Net variants: U-Net, U-Net++, U-Net3+,... and loss functions: Dice Loss, Focal Loss, Mixed Loss,...- Responsible for building and optimizing model, as well as carrying out experiments on different network architectures and loss functions.
PyTorch Lightning Hydra	Filter Filter (github.com) <ul style="list-style-type: none">- A system trained on the IBUG 300w dataset of human faces to detect Facial Landmarks and then apply filters to the faces using Delaunay triangulation and affine transformation.- Responsible for building, optimizing, training models and applying algorithms to use filters.
PyTorch Lightning Hydra	GANs GANs (github.com) <ul style="list-style-type: none">- A system that uses models such as gan, cgan, dcgan to train two data sets fashion and mnist to generate new data.- Responsible for building, optimizing, training models.
Streamlit OpenAI API PyGWalker Langchain	DAGPT DAGPT (github.com) <ul style="list-style-type: none">- This is a useful and convenient data analysis tool called DAGPT (Data Analysis GPT). This tool uses large language models (LLMs) to support data manipulation and analysis through a conversational interface.- Responsible for building this entire tool.
Scikit-learn Keras	Sino nom character recognition Sino nom character recognition (github.com) <ul style="list-style-type: none">- A sino nom characters recognition system based on convolutional neural network models.- Responsible for data processing, model building and model evaluation.
Scikit-learn Pandas	Precipitation Estimation Precipitation-Estimation (github.com) <ul style="list-style-type: none">- A system that uses data from satellites to predict rainfall based on machine learning.- Responsible for data preparation, data processing and model building.
Tensorflow Streamlit	American Sign Language American Sign Language (github.com) <ul style="list-style-type: none">- ASIGN is an app designed to help with recognizing and learning American Sign Language (ASL). It features video-based recognition of sign languages, spelling recognition in ASL, instructional videos for word-by-word learning, a Q and A section, and analysis and practice through practice videos.- Responsible for collecting data and building functions and interfaces for the Dictionary function.
Python	Tictactoe AI Ai-caro-game (github.com) <ul style="list-style-type: none">- An automatic tictactoe playing system based on the alpha beta pruning algorithm.- Responsible for implementing Alpha beta pruning algorithm, heuristic function, Zobrist table and hash table.

EXPERIENCE

08/2022 – now Member at AI Lab - University of Engineering and Technology - VNU
• Involved in multiple research projects lead by instructors.

EDUCATION

09/2021 - present	University of Engineering and Technology - Vietnam National University Majoring in Computer Science GPA - 3.67
11/2022	Certificate Machine Learning by Stanford University & DeepLearning.AI on Coursera.
02/2023	Certificate Neural Networks and Deep Learning by DeepLearning.AI on Coursera.
06/2023	Certificate Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization by DeepLearning.AI on Coursera.
9/2024	Certificate Structuring Machine Learning Projects by DeepLearning.AI on Coursera.

LANGUAGES

English - B2